USER'S MANUAL

1-CHANNEL VIDEO SERVER

Monitor live video images transmitted in real-time

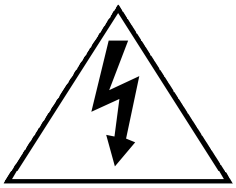
Simultaneous video and audio signal transmission

Supports various network environments

Easy software upgrades from anywhere

E-mail transmission ensures important events are not missed

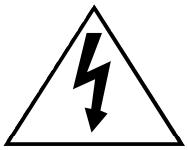
Remote multiplexer control



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

COMPLIANCE NOTICE OF FCC:

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE, IN WHICH CASE USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

THE INFORMATION IN THIS MANUAL IS BELIEVED TO BE ACCURATE AS OF THE DATE OF PUBLICATION. IDIS, CO., IS NOT RESPONSIBLE FOR ANY PROBLEMS RESULTING FROM THE USE THEREOF. THE INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE. REVISIONS OR NEW EDITIONS TO THIS PUBLICATION MAY BE ISSUED TO INCORPORATE SUCH CHANGES.

IMPORTANT SAFEGUARDS

1. Read Instructions
All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions
The safety and operating instructions should be retained for future reference.

3. Cleaning
Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments
Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture
Do not use this equipment near water or in contact with water.

6. Accessories
Do not place this equipment on an unstable cart, stand or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions and a mounting kit approved by the manufacturer should be used.

This equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

7. Ventilation
Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the equipment, and to protect it from overheating. These openings must not be blocked or covered. Do not block these openings or allow them to be blocked by placing the equipment on a bed, sofa, rug, or bookcase. Ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

8. Power Sources
This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company.

9. Power Cords
Do not allow anything to rest on the power cord. Do not locate this equipment where the cord will be damaged by persons walking on it.

10. Lightning
For added protection for this equipment during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges.

11. Overloading
Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

12. Objects and Liquids
Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

13. Servicing
Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

14. Damage Requiring Service
Unplug equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
A. When the power-supply cord or the plug has been damaged.
B. If liquid is spilled, or objects have fallen into the equipment.
C. If the equipment has been exposed to rain or water.
D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
E. If the equipment has been dropped, or the cabinet damaged.
F. When the equipment exhibits a distinct change in performance, indicating a need for service.

15. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

16. Safety Check
Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

17. Field Installation
This installation should be made by a qualified service person and should conform to all local codes.

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Product Information

This product provides an advanced solution for retrieving video over computer networks, including the Internet. It grabs composite video images from one video input, compresses them, and then transmits them over computer networks or telephone lines at speeds up to 30 frames per second. In addition to video access, this product provides audio and alarm information from the remote site. There are one sensor input and one alarm input.
The user can listen in on the remote site with the audio input. This product is capable of remotely controlling pan, tilt, zoom, and focusing cameras. All of features are accessible through Internet web browsers, allowing users to access and control their systems any time from virtually anywhere.

1. Features

A) Monitor live video images transmitted in real-time
- ▶ Remote monitoring up to 30fps live video images
- ▶ Low network bandwidth requirement: 3KB per image typical
- ▶ Three-levels of input resolution: 640x480, 320x240, 160x120
- ▶ Four-levels of image compression

B) Simultaneous video and audio signal transmission
- ▶ Monitor voices and background sounds via one audio input

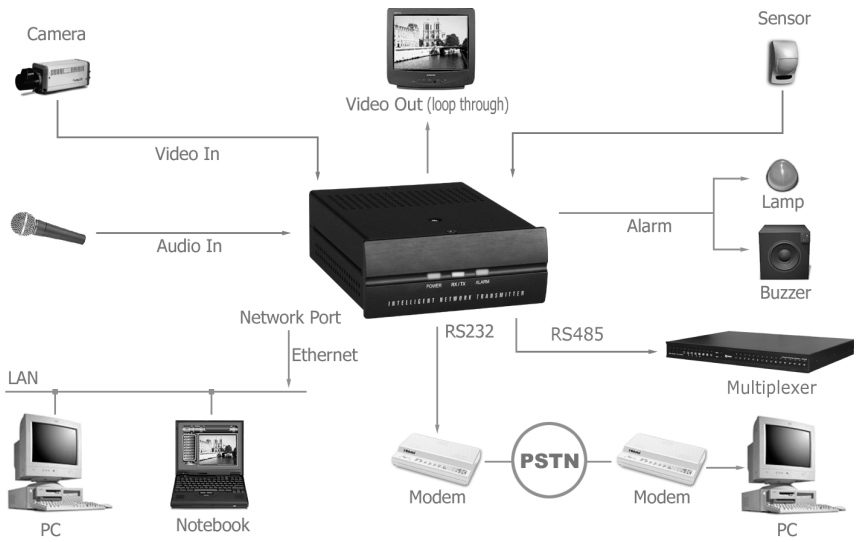
C) Supports various network environments
- ▶ Ethernet or Fast Ethernet interface for Internet
- ▶ Modem interface for standard telephone lines

D) Easy software upgrades from anywhere
- ▶ Upgrade software at remote sites using a web browser

E) E-mail transmission ensures important events are not missed
- ▶ Video can be transmitted to assigned e-mail addresses whenever a sensor detects an input signal

F) Additional convenient features
- ▶ Remote multiplexer control through RS485 interface
  ***Note**: This function requires an additional software for each supported multiplexer model.*
- ▶ Autosensing for the video format (NTSC/PAL)
- ▶ One digital sensor input and one alarm output
- ▶ RS485 interface for Pan/Tilt/Zoom/Focus control
- ▶ One video loop-through terminal
- ▶ Each function can be set remotely using a web browser

2. System Configuration



3. System Components

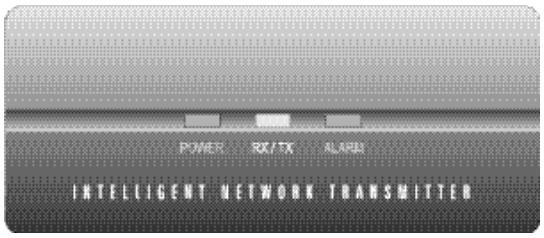
- 1-Channel Video Server
- Adapter (12VDC, 1A)
- Browser100 Installation Diskette for Modem Connection
- MINIDIN-8/DB-9 Converter for Modem Connection
- Assembly Accessaries (Refer to Appendix 2. Assembly Guide.)
- User's Manual

4. Monitoring System Requirements

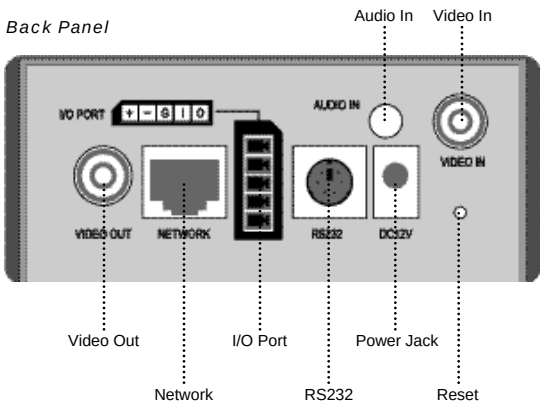
- OS: Microsoft Windows 98
- CPU: Intel Pentium II Celeron 266MHz or higher
- RAM: 32MB or higher
- VGA: AGP, Video RAM 4MB or higher
- Web Browser: Internet Explorer 5.0 or higher version

Installation

Front Panel



Back Panel



1. Connection via LAN

1.1 Cable

Connect LAN, a camera, and/or a sensor cable to the appropriate ports on the back panel.

1.2 Power

Connect the power cable to the appropriate port on the back panel. The system has been booted normally if POWER LED blinks once within 10 seconds.

1.3 PC Setup

Use a PC that can network with the system without a router.
(From now on, this particular PC will be referred to as "PC".)

1.4 Configuring PC Network

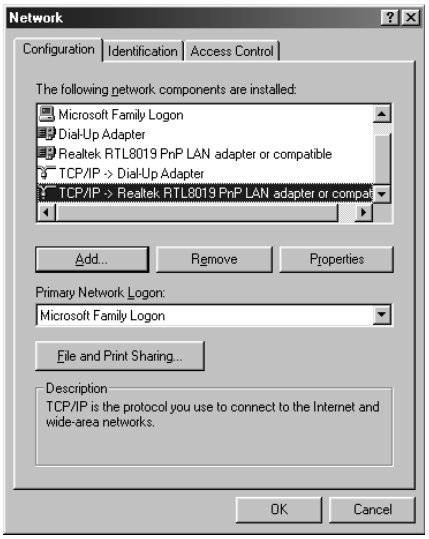
Under Start in Windows, go to Settings, Control Panel, and then Network Setting. In the Configuration tab, select the TCP/IP and then click Properties. Modify your network configuration as shown below. Make a note of the existing network configuration values of your PC since you need to restore them in Step 1.8.

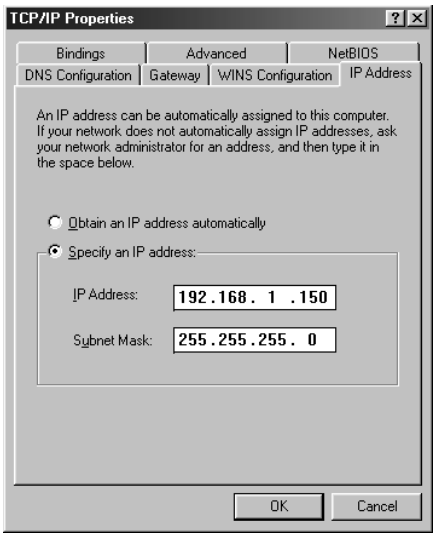
***Note**: You may need to reboot after this step.*

Example) IP Address: 192.168.1.**150**

(In fact, fourth address may be any value from 1 to 254, except 129.)

Subnet Mask: 255.255.255.0

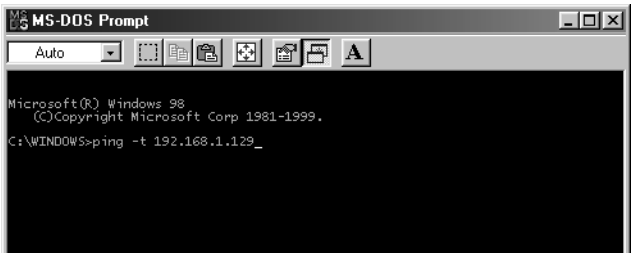




1.5 Verifying Network Setup

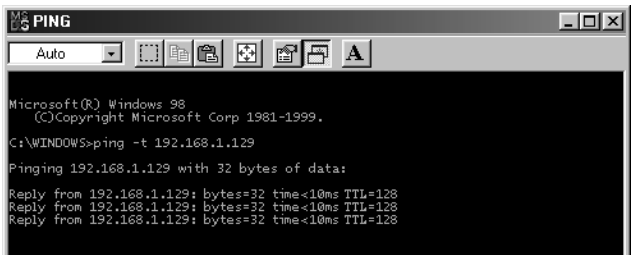
Under Start in Windows, go to Programs, then choose MS-DOS Prompt. Enter the ping command **(ping -t 192.168.1.129)**.

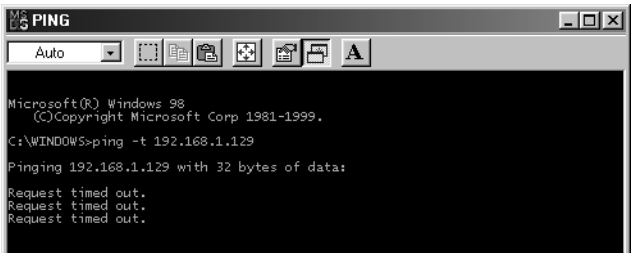
***Note**: By sending a packet to the specified address and waiting for a reply, the PING (Packet Internet Groper) can determine whether a specific IP address is accessible.*



If the ping utility returns "Reply from 192.168.1.129...", it means that the address has been set and communication is established.

If the ping utility continually returns "Request timed out", go back to Step 1.2 and try again.


PING
Auto
Microsoft(R) Windows 98
(C)Copyright Microsoft Corp 1981-1999.
C:\WINDOWS>ping -t 192.168.1.129
Pinging 192.168.1.129 with 32 bytes of data:
Reply from 192.168.1.129: bytes=32 time<10ms TTL=128
Reply from 192.168.1.129: bytes=32 time<10ms TTL=128
Reply from 192.168.1.129: bytes=32 time<10ms TTL=128



1.6 Administrator Configuration

Start your Web browser and enter **"http://192.168.1.129/admin_login.html"** in the location/address field. The Administrator Login Page will appear. Enter a login ID and password. The default ID is **admin**, and the password is **12345**. Refer to the "Administration Page" section for details.

1.7 Configuration

Move to the *Network Config* menu in the Administration Page and modify IP address, gateway, and subnet mask. The system will reboot after you click **Submit**, and the POWER LED goes on and off 10 times. After five seconds, the POWER LED will go on and off again. This means that the system has completed the new network configuration. Refer to the "Administration Page" section for details.

1.8 Restoring PC Network Configurations

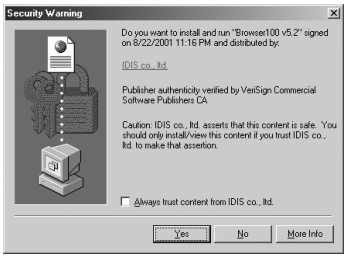
Restore the network configurations to the original values in Step 1.4. You may need to reboot.

1.9 Verifying Networking

Run the ping utility again with an IP address modified in Step 1.7. In case the networking does not work, disconnect and reconnect the power cable then run the ping utility. If the problem occurs again, press the reset pin button (located on the back panel) with a sharp pin for one second and launch Factory Reset. Then go back to Step 1.4 and try again. Refer to the "Appendix II. Troubleshooting" for the instructions on Factory Reset.

1.10 Installing Browser100

When you start your Web browser and enter **"http://modified IP Address"** (modified in Step 1.7) in the location/address field, the browser will be automatically installed and launched with a note of authentication dialog box.


Security Warning
Do you want to install and run "Browser100 v5.2" signed on 8/22/2001 11:16 PM and distributed by:
IDIS co., ltd.
Publisher authenticity verified by VeriSign Commercial Software Publishers CA
Caution: IDIS co., ltd. asserts that this content is safe. You should only install/view this content if you trust IDIS co., ltd. to make that assertion.
Always trust content from IDIS co., ltd.
Yes
No
More Info

Check to see whether the images have been transmitted to the Browser100 without any problem. Refer to the "Browser100" section for details.

***Note**: Once you modify the IP address, all the settings are automatically saved. You do not need to go through the steps again, even if you unplug and then plug the unit back in. However, follow the Administration Page instructions if you want to change the IP address again.*

2. Connection via Dial-up Modem

When a local network connection is not available, you can connect the system through telephone line at a remote. The system can be connected via LAN and modem at a time.

2.1 Cable

Connect an external modem (Hayse compatible, 33.6kbps or higher) to the MINIDIN-8 connector of the RS232 port on the back panel of the unit. For this connection, the MINIDIN-8/DB-9 converter is required. The modem should be connected with a telephone line. In addition, a camera, a sensor, and/or an audio cable to the appropriate port(s). In case of using LAN and modem at a time, connect a LAN cable to the network port on the back panel, and refer to the "Connection via LAN" section in the previous chapter for the instructions on network setup.

2.2 Power

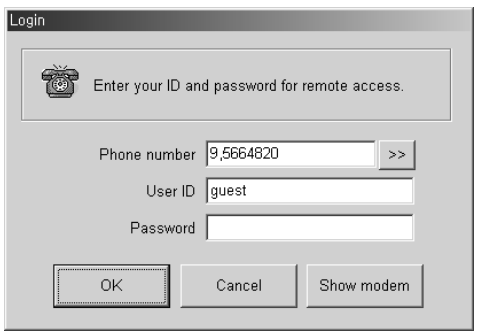
First connect the power cable to the installed modem, and then supply the power to the system using a provided adapter (12VDC, 1A). The system has been booted normally if POWER LED blinks once within 10 seconds. Right after this, the system executes a modem initialization command and makes the modem ready to receive a call.

2.3 Installing Browser for Modem Connection

Another modem should be installed in a local PC which will be connected via modem to the system at a remote site. (From now on, this particular PC will be referred to as "PC.") Insert a supplied installation diskette to the PC, and install the Browser100 by running "setup.exe." If installation is successful, the folder "C:/Browser100" has been created, and you can find a shortcut icon on the desktop screen.

2.4 Connecting (Login)

Run the Browser100 by double clicking the shortcut icon on the desktop, and the following "Login" dialog box will appear. Fill the blanks with the phone number of a target system, and the user ID and the password provided by an administrator accordingly. If you click **OK**, dialing starts and you can remotely access to the system.

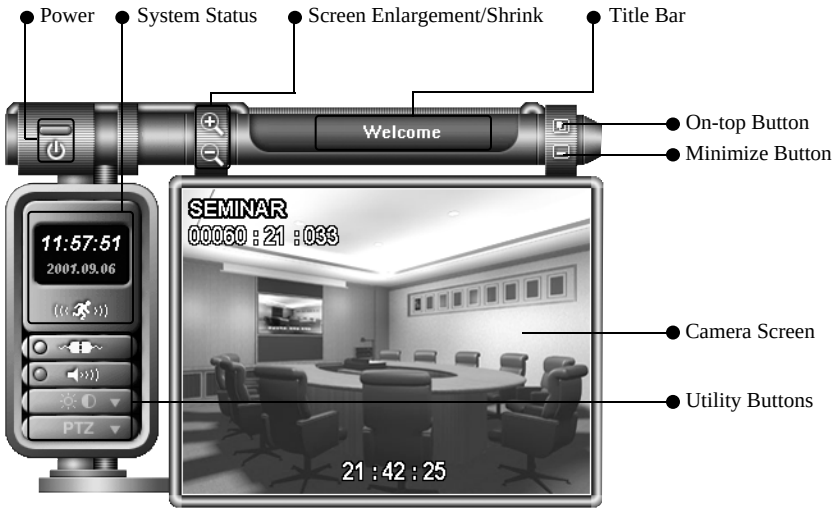


After logging in successfully, refer to the "Browser100" section for using the Browser100.

***Note**: The target system should be connected with an external modem through its RS232 port, and the phone number of the modem should be entered in "Login" dialog box above when connecting.*
***Note**: Enter "guest" and " " (null) for the guest login.*

Operation

1. Browser100



▶ Power Button
- Quits the program.

▶ System Status
- Displays the current date/time and alarm status.

▶ Utility Buttons
- Selects a camera and functions, including connection/disconnection, audio on/off, image adjustment, and PTZ control.

▶ Screen Enlargement/Shrink Button
- Selects a screen size (640x480, 320x240, 160x120).

▶ Title Bar
- Displays the title of the location where the system is installed.

▶ On-top Button
- Makes the Browser100 window always on top of the screen

▶ Minimize Button
- Minimizes and hides the Browser100 window.

1.1 System Status and Utility Buttons

The warning lamp turns orange if a sensor is activated or motion is detected.

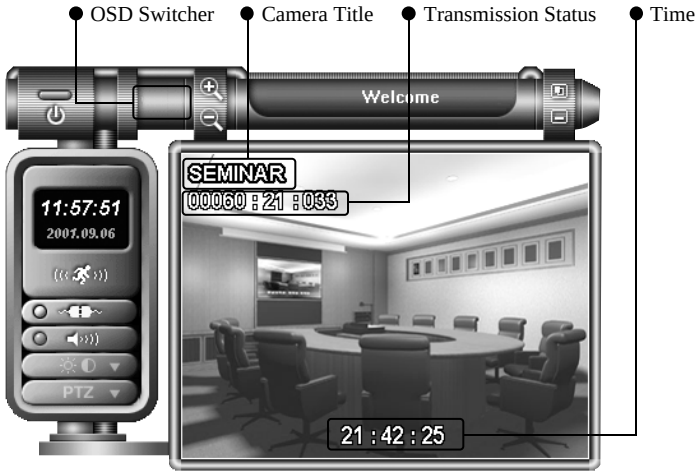
◀ Toggles between connection/disconnection.

◀ Toggles the audio-output on/off.

◀ Opens/closes the window for image adjustment.

◀ Opens/closes the window for PTZ control.

1.2 Camera Screen



▶ OSD Switcher
- Every time this button is double clicked, the OSD mode switches between None / Camera Title + Time / Camera Title + Time + Transmission Status.
- Time, Camera Title, and Transmission Status are displayed only when the screen size is 320 x 240 or larger.

▶ Time
- Displays the time the image is captured.

▶ Camera Title
- Displays the title of location where the camera is installed.
- The camera title can be changed on the Administration Page. Refer to the "Administration Page" section for details.

▶ Transmission Status
- Displays the image size (in bytes), the number of images per second, and the data transmission rate (in Kbps).

▶ No Video
- "No Video" is displayed in the center of the camera screen when there is no input signal from a camera.

▶ Not Activated
- "Not Activated" is displayed in the center of the camera screen when the user selects "Off" for Video Channel State under the Video Configuration of Administration menu.

1.3 Image Adjustment

◀ Brightness

◀ Contrast

◀ Saturation

◀ Hue

◀ Revert: Cancels the image processing operation and reloads the original image.

1.4 PTZ Control

◀ Pan/Tilt

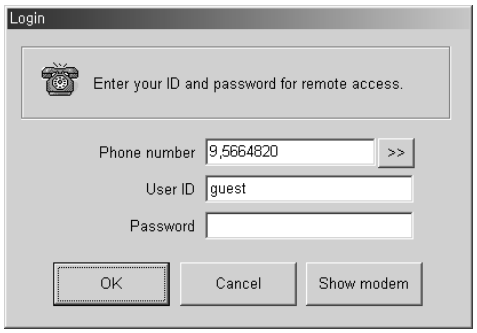
◀ Zoom In/Out

◀ IRIS

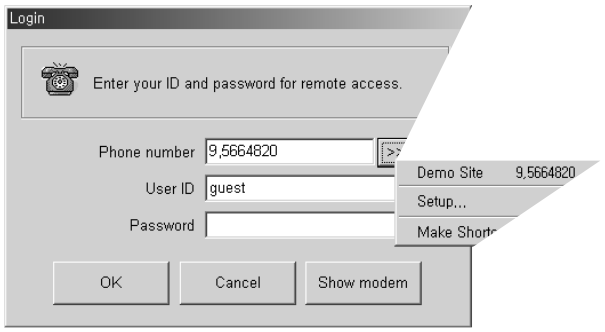
◀ Focus

1.5 Dialog Boxes for Dial-up Connection

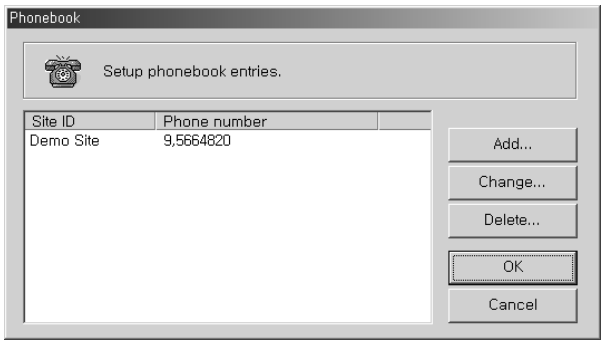
The following dialog box appears after executing the shortcut icon for modem connection.



The site ID and telephone number can be added, edited or deleted by clicking ">>", and selecting **Setup**.

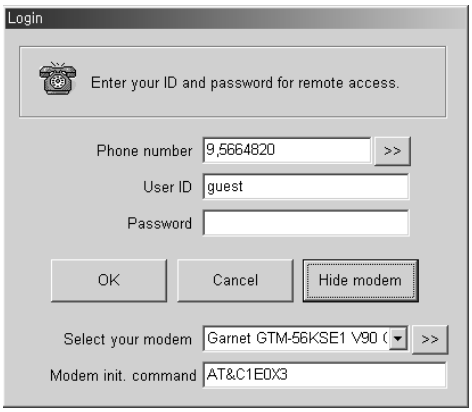


Up to ten sites can be registered in this phonebook. In case of adding connection sites, click **Add**, and enter site ID and its phone number. And then click **OK**.



If you want to edit site information, select the site and click **Change**. And then change the site ID and its phone number. To delete a site, select the site you want to delete, and click **Delete**.

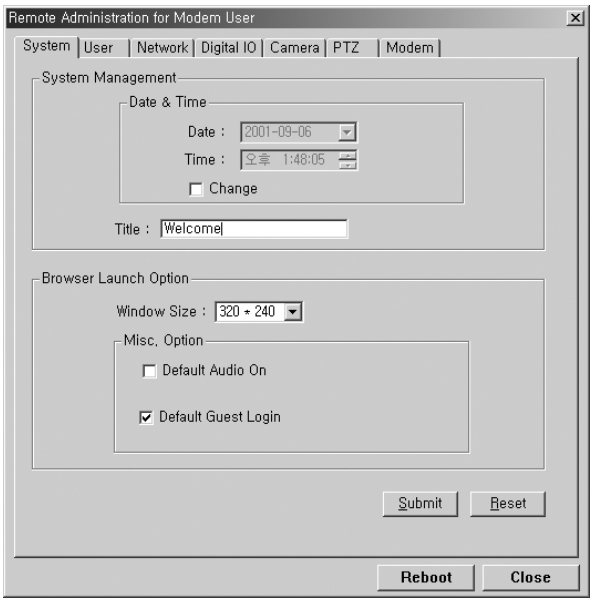
Click **Show modem**, and check whether the modem installed in your local PC is correctly chosen. You can find a combo box of "Select your modem" and an entering space of "Modem initialization command" at the bottom.



If you click “>>” next to the combo box of "Select your modem", the dialog box for changing options of the installed modem will appear. (Refer to the "Help" menu of OS running on your PC for detail instructions on setting up the modem.)

1.6 Administration Dialog Box for Modem User

The administration dialog box is available only if you log in as an administrator (with an administrator's ID). After administrator login has been successful, double click the title bar of the Browser100. The following dialog box will appear.



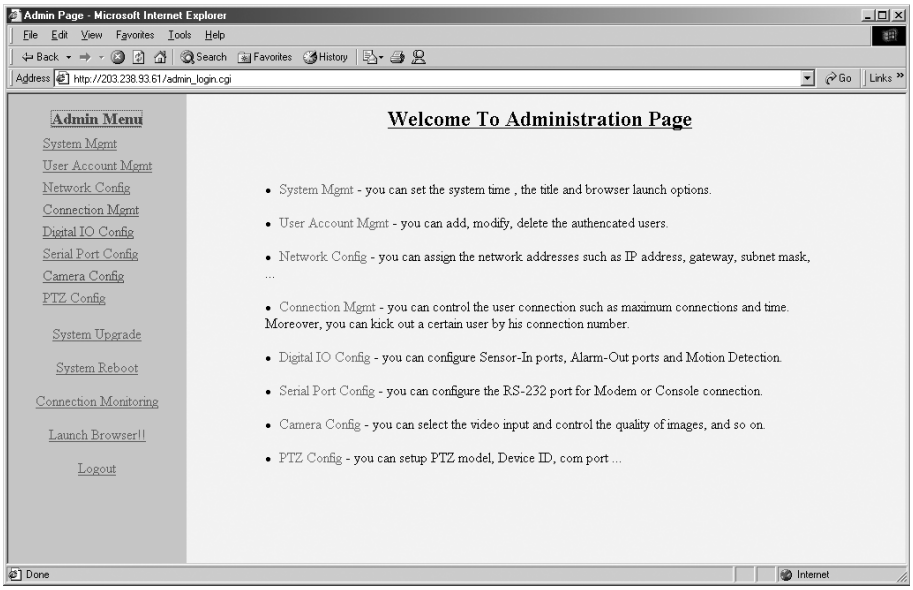
The information of dialog box above is equivalent to the one of "Administration Page" accessible by using a web browser. Refer to the "Administration Page" section for the instructions on setting up each menu.

2. Administration Page

The Administration Page is the web page accessible by a web browser, where the administrator can control the settings at a remote site.

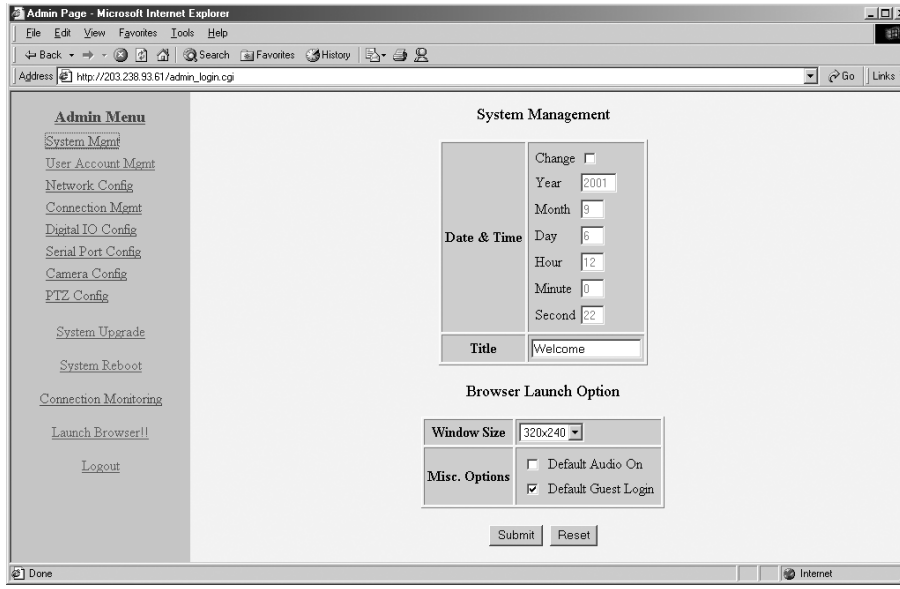
Start the Web browser and enter **"admin_login.html"** page of the IP address assigned for your system (e.g., 192.168.1.129/admin_login.html) in the location/address field. The default login ID is **admin,** and the Password is **12345**.

The Administration Page will be displayed if login is successful.


Admin Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://203.238.93.61/admin_login.cgi
Go Links
Admin Menu
System Mgmt
User Account Mgmt
Network Config
Connection Mgmt
Digital IO Config
Serial Port Config
Camera Config
PTZ Config
System Upgrade
System Reboot
Connection Monitoring
Launch Browser!!
Logout
Welcome To Administration Page
System Mgmt - you can set the system time , the title and browser launch options.
User Account Mgmt - you can add, modify, delete the authencated users.
Network Config - you can assign the network addresses such as IP address, gateway, subnet mask, ...
Connection Mgmt - you can control the user connection such as maximum connections and time. Moreover, you can kick out a certain user by his connection number.
Digital IO Config - you can configure Sensor-In ports, Alarm-Out ports and Motion Detection.
Serial Port Config - you can configure the RS-232 port for Modem or Console connection.
Camera Config - you can select the video input and control the quality of images, and so on.
PTZ Config - you can setup PTZ model, Device ID, com port ...
Done
Internet

The Administration Page has eight sections: System Management, User Account Management, Network Configuration, Connection Management, Digital IO Configuration, Serial Port Configuration, Camera Configuration, and PTZ Configuration. Additional sections include System Upgrade, System Reboot, Connection Monitoring, Launch Browser, and Logout. Click each menu item to select it. Adjust the settings by clicking **Submit** after setting up the values. Click **Reset** to ignore the modified values and show the current settings.

2.1 System Management



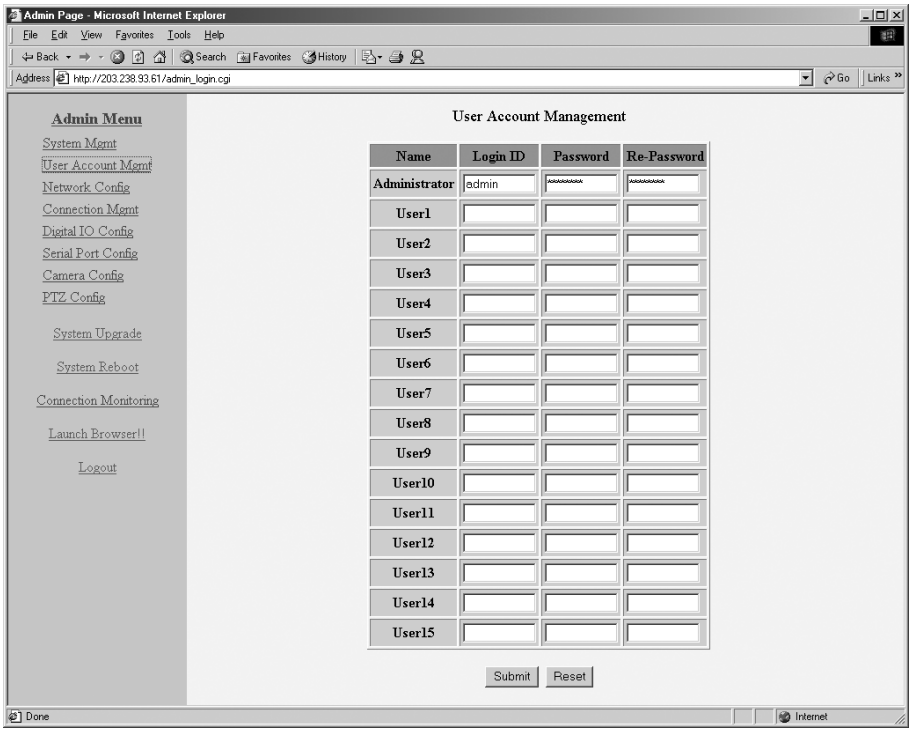
Click **System Mgmt** to set up the System Management and Browser Launch Option information. The System Management sets the date, time, and system name. The system name will be displayed in the title bar of the browser.

***Note**: Check the box next to **Change** if you want to change the date and time.*

The Browser Launch Option establises the default settings of the browser when the user first accesses the system: Window Size (640x480, 320x240, or 160x120), Audio On/Off, and Guest Login. If the **Default Guest Login** box is unchecked, only registered users who completed the login procedures can use the system. Refer to the "User Account Management" section for the user registration.

The sample System Management and Browser Launch Option settings above show that the browser will display the images with the size of 320x240, guest login is available, and audio is off.

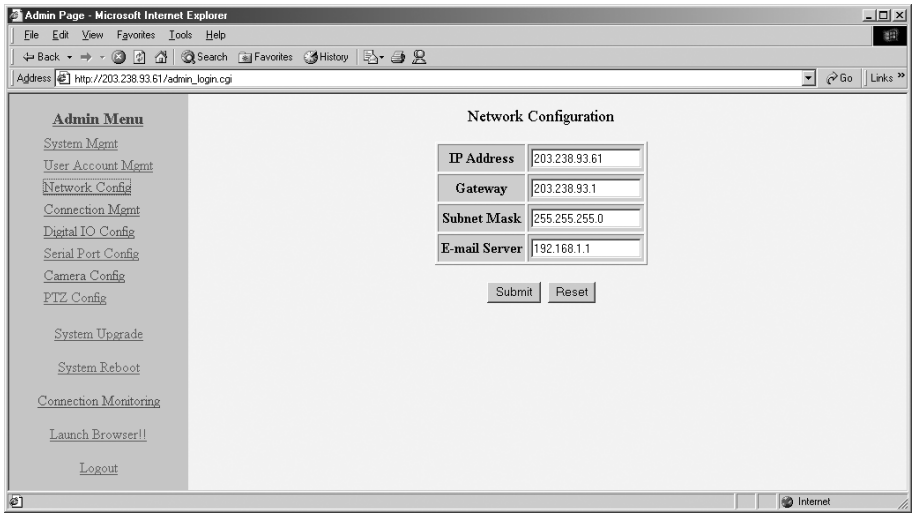
2.2 User Account Management



Click **User Account Mgmt**. The system supports up to 16 user accounts including an administrator account. The administrator account must always be used because only the Administrator can control the settings. Change the administrator password after installing the system to prevent others from changing the settings. If you forget an administrator ID and password, launch Factory Reset using the default ID (**admin**) and password (**12345**). Refer to the "Appendix II. Troubleshooting" for details.

To register additional users, enter their user IDs under Login ID and passwords under Password, and then confirm the password under Re-Password. Then click **Submit**. If you want to remove a user, clear the Login ID box and click **Submit**.

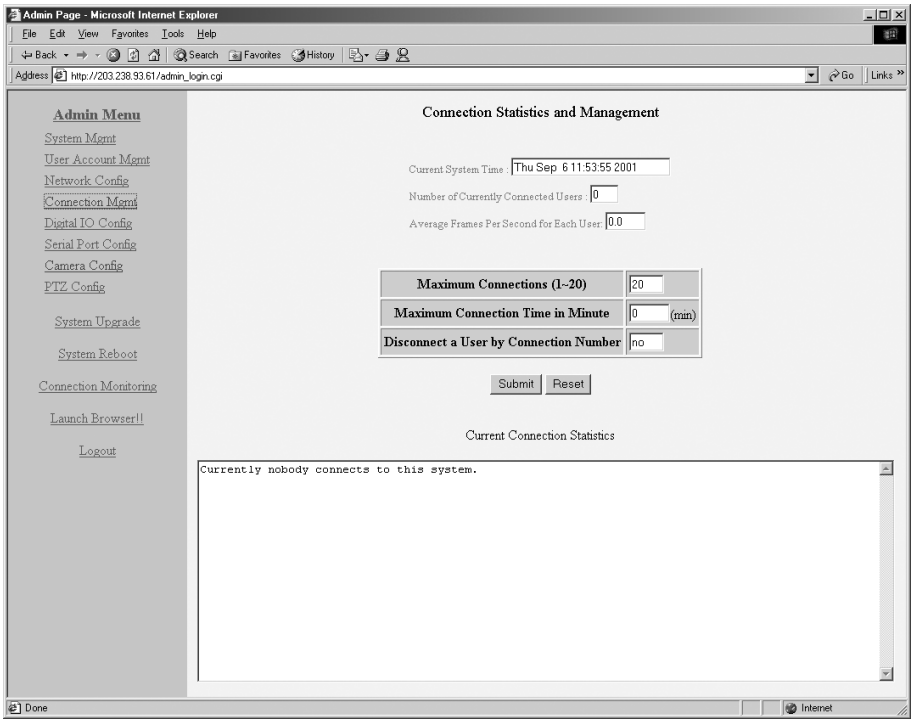
2.3 Network Configuration



Click **Network Config**. Assign the IP Address, Gateway, Subnet Mask, and E-mail Server addresses, which can be acquired from your network administrator, and then click **Submit**. When the network configuration is changed, the system will reboot automatically and save the new settings. If wrong setting values are registered, you will not be able to access the rebooted system and will have to launch Factory Reset. Refer to the “Appendix II. Troubleshooting” for the instructions on Factory Reset.

2.4 Connection Management

Click **Connection Mgmt**. The Connection Statistics and Management sets the maximum number of connections and the maximum connection time. If you do not wish to limit the connection time, enter '0' in the "Maximum Connection Time in Minute" box.

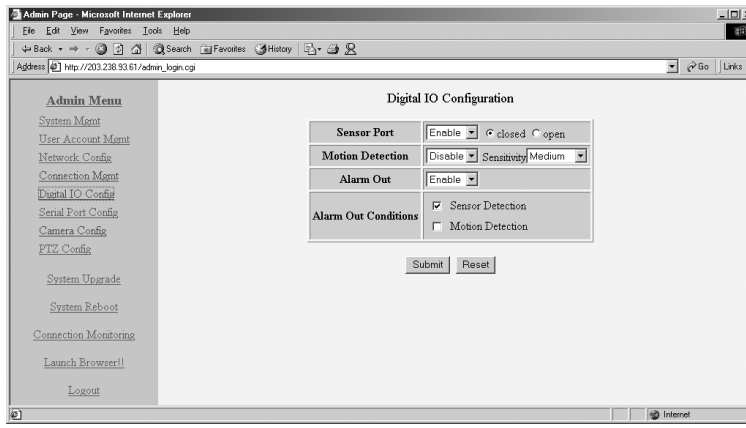


The Current Connection Statistics shows the information about connected users, including connection number, ID, IP address, image transmission speed in fps, camera status, audio status, and the time they connected. For example, the information in the box above illustrates that the user named "guest" (**User ID: guest**) accessed the server from IP address '192.168.1.150' (**IP Address: 192.168.1.150**) on Friday, April 24th, 2001 at 21:38:47 (**Connection Time: Since Fri Apr 21:38:47 2001**) with the connection number '0' (**Num: 0**). Camera images (**CAM:1**) are being transmitted at the speed of 24 frames per second (**FPS: 24**), and the audio off (**Audio: 0**). You are able to drop suspicious users from the system by entering the connection number in the "Disconnect a User by Connection Number" box.

2.5 Digital IO Configuration

The Digital IO Configuration sets the operation of a sensor, motion detection and an alarm, and the alarm out condition. When an alarm is triggered or motion is detected, an e-mail message will be sent to the e-mail address assigned to that camera. Alarm status lamp in the Browser100 also indicates the state of the sensor (closed or open).

The sensing condition is set when a target sensor port and a ground port on the back panel are connected (*Normally Closed*), and when a target sensor port and a ground port are not connected (*Normally Open*). There is one dry contact (open collector) alarm output, which can control the switch of an external device.

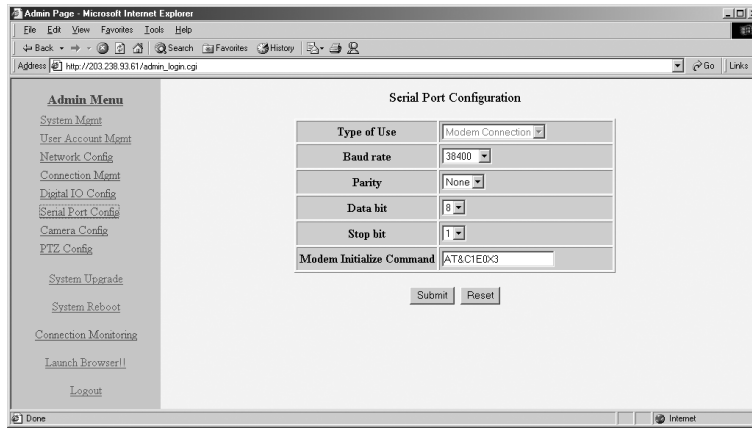


The motion detection is set up for the camera input of the system, and the value for its sensitivity has four levels between "Low" and "Very High." In case of "Very High" value, you need to test its sensitivity first because it may be more likely to trigger false alarms.

Refer to the “2.7 Camera Configuration” for the instructions on e-mailing the image of a target camera when an alarm is triggered or motion is detected.

2.6 Serial Port Configuration

Serial Port Configuration, only made for dial-up connection, sets the RS232 port setting and the modem initialization command. Set the desirable values according to the performance of the modem to be installed. If you change any value of serial port configuration, the system will reboot and open the RS232 port with new settings.



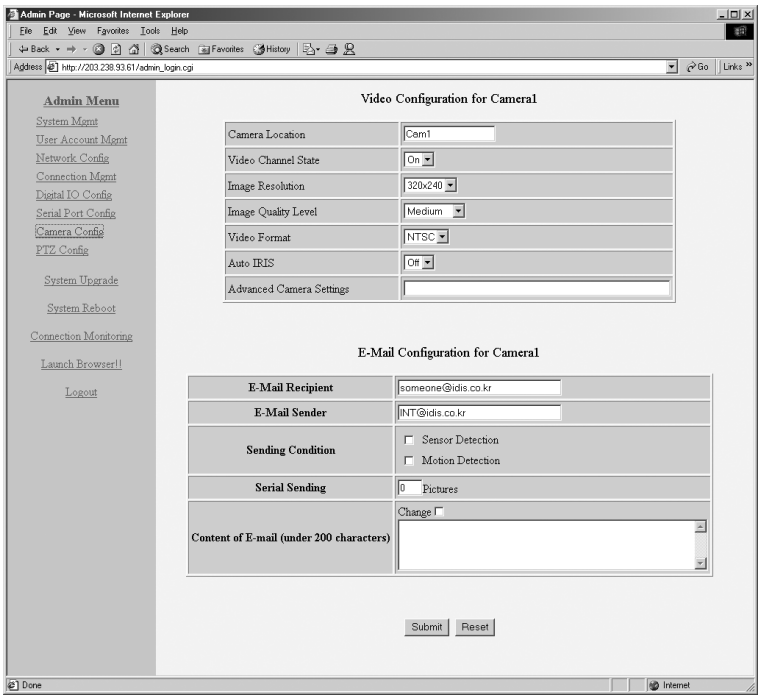
2.7 Camera Configuration

The Camera Configuration sets the video configuration and e-mail configuration. The video configuration includes the camera location, video channel state, image resolution, image quality level, and video format information.

For the video channel state, the administrator can set the state of image transmission regardless of the camera connection. "Not Activated" will be displayed on the camera screen of the Browser100 when the user selects "Off " for the Video Channel State.

Image resolution and the image quality level need to be adjusted properly because they affect image quality and transmission speed. The image resolution is the size of the image, and it remains the same size after the compressing-transmitting-retrieving procedures. This way, the system can perform to its maximum and reduce the workload of the PC in case the same value is set up between output size and image resolution at the Browser100.

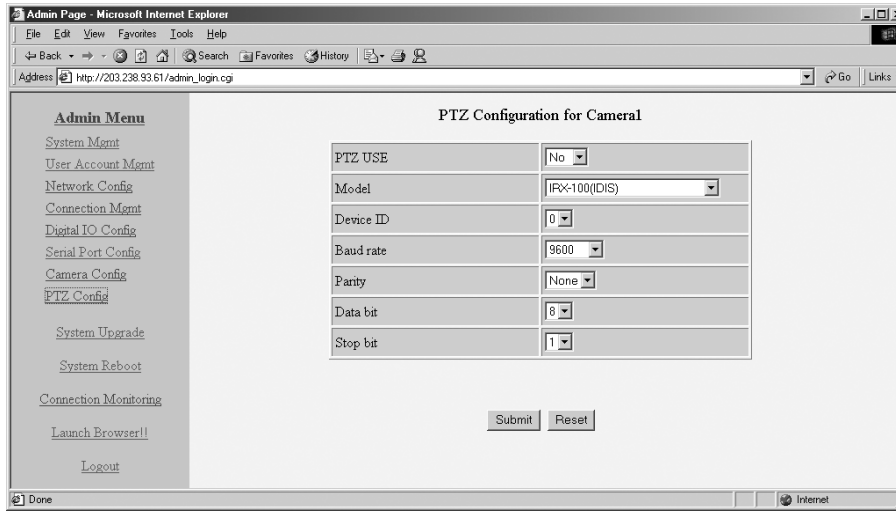
The Video Format decides the modulation type of input video signals, and the system supports two most popular video standards; NTSC and PAL. The system detects and sets the modulation type of input video automatically, so this setting is not generally made. If you change the modulation type, the system will reboot with the new setting.



The E-Mail Configuration includes information about e-mail recipient, e-mail sender, sending condition, serial sending, and content of e-mail. The number next to Serial Sending shows how many images will be transmitted in serial order. However, the higher the number, the slower the transmission due to the constraints of e-mail. The sending condition includes the result of sensor activation and motion detection.

***Note**: The operation of sensor and motion detection should be set in advance. Refer to the "2.5 Digital IO Configuration" section.*

2.8 PTZ Configuration

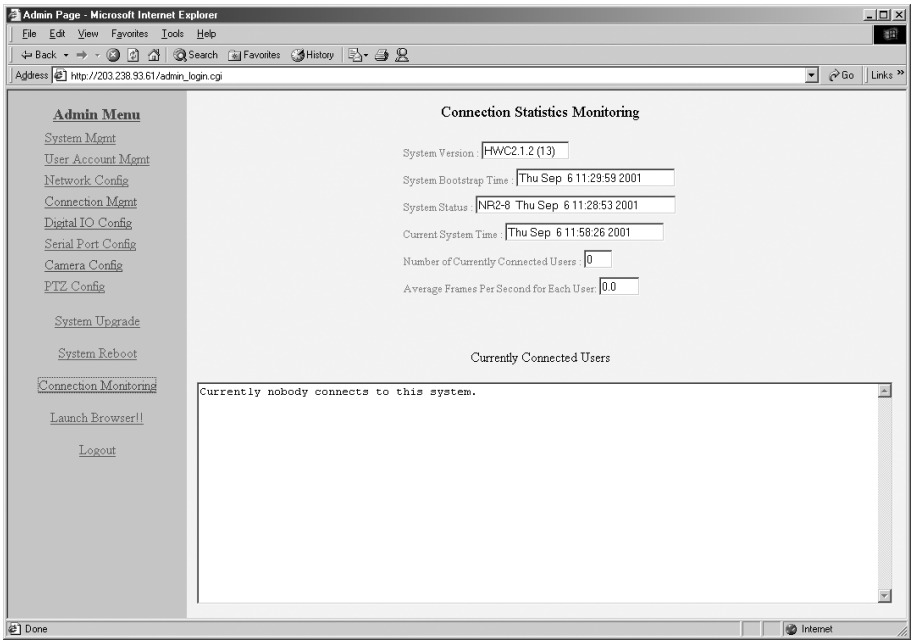


The system can remotely control the pan/tilt/zoom/focus module of the camera through an I/O port on the back panel of the system. When networking, the Half Duplex communication line of the RS485 is used between the system and the PTZ module. When communicating by RS485, attach a termination resistor (120-150Ω) on the outside to process without errors.
Refer to the manual for each supported driver for the detailed communication settings between the system and the PTZ module.

2.9 System Upgrade

This page allows software upgrades to be done at remote sites using a web browser, so users do not have to come to the system or take its cover off. Since wrong software upgrades may cause an unrecoverable system failure, the system will ask for another password to upgrade software. This password will be provided with the upgrade software by your local dealer.

2.10 Connection Monitoring



The Connection Statistics Monitoring helps the administrator see the state of current system and connections at a glance. This page is automatically updated every 10 seconds, so the administrator does not need to click this menu to get the updated information.
The Connection Statistics Monitoring information includes the current system version, bootstrap time, system status, system time, number of connected users, and average frames per second. The Currently Connected Users is the same as the Current Connection Statistics in Connection Management information.

2.11 Log Out

Please log out after finishing setup to keep your administration page secure.

Appendixes

Appendix 1. Technical Specifications

Power Source	12VDC, 1.0 A	
Power Consumption	6 Watts	
Video In	1 ch. (NTSC / PAL)	NTSC / PAL Autosensing
Image Resolution	Selectable from 640 x 480, 320 x 240, 160 x 120	
Compression	ML-JPEG or JPEG (Programmable Compression Ratio)	
Performance	Max 30 frames/sec (Max 25 frame/sec PAL)	320 x 240 Resolution Medium Compression
Audio In	1 ch.	
Browser	Web Browser (Active X) or Monitoring S/W	
Alarm In/Out	Alarm In Alarm Out	1 ch. 1 ch.
Dimension (W x H x D)	150 x 44 x 106 mm	
Weight	0.6 kg	
Connection	Video Input: 1 Vp-p 75Ohm Comp. (1 ch.) Video Output: 1 Vp-p 75Ohm Comp. (1 ch. Loop Through) Audio Input LAN: 10/100 Base-T Ethernet I/F Serial Port: RS-232 PTZ Control: RS-485	1 BNC 1 BNC 1 RCA RJ-45 MINIDIN-8 I/O Port
Misc.	RS-232 Network Protocol Security Alarm E-mail Capability Motion Detection	Console or Modem TCP/IP, HTTP, SMTP Setup Password

*Specifications subject to change without notice.

Appendix 2. Assembly Guide

The accessories shown below are provided for the assembly of this product and a CCD camera.

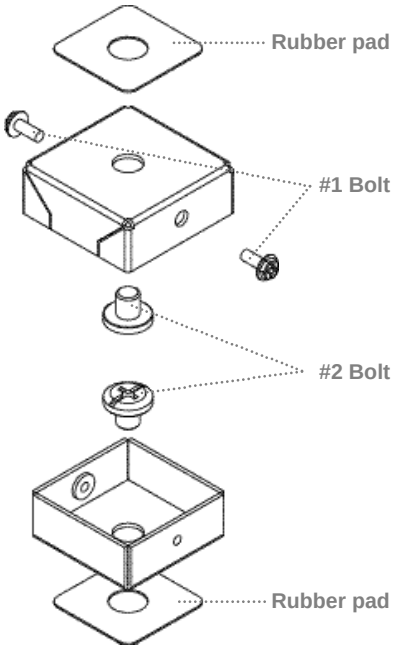
Assembly

1. Paste the rubber pad on the upper bracket and the lower bracket each.

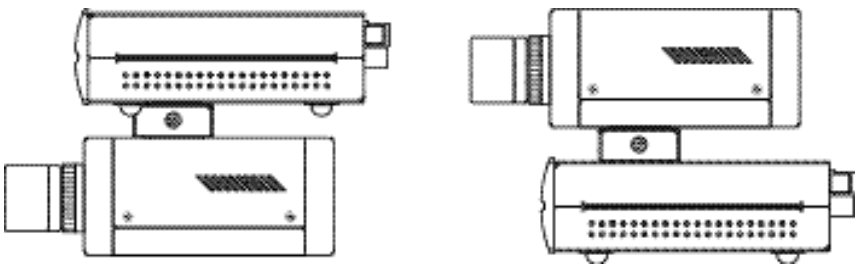
2. Attach each bracket on the body of the product and the camera using a #2 bolt.

3. Weld one bracket to the other bracket using two #1 bolts.

4. For user's convenience, the assembly type may be chosen from the examples shown below.



1-Channel Video Server & CCD Camera Assembly Examples



Appendix 3. Troubleshooting

Q) I cannot access the “Administrator Login Page” due to wrong network configuration.

A) After launching Factory Reset, try the installation procedures again.

The POWER LED will go on and off quickly, and the Factory Reset is launched if you press the reset pin button (located on the back panel) with a sharp pin for about one second after connecting the power cable. When the Factory Reset is launched, all the settings, including network setup, return to the factory default settings. Then follow installation procedures in accordance with the instructions written in this manual.

***Note**: If you push the reset pin button only lightly, it will simply reboot, and the setting you had entered before rebooting will remain unchanged.*

Q) I forgot the ID and password for the administrator account, so I cannot log into the Adiminstration Page.

A) After launching Factory Reset, use the default ID (admin) and password (12345).

The network configuration returns to the factory default settings after launching the Factory Reset. Reset the settings by following the installation procedures in this manual.

Q) The Browser100 does not launch.

A) Upgrade Internet Explorer to 5.0 or higher version.

Sometimes the Browser100 cannot bring 'index.html' from the system when the Internet Explorer version is under 4.0.

Q) The images are not displayed even though the Browser100 has been launched.

A) Update the V3 program to the latest version or terminate the program.

This will occur when the V3 (Ahnlab, Inc., anti-virus program) is working in your PC.

Q) I cannot verify the network setup of the system (failed during the ping utility).

A) Try the ping utility again after entering "arp -d" command and clearing the ARP table under the MS-DOS prompt.

Sometimes the ping utility can fail when setting up multiple units with one PC.